

## TEST REPORT n° 162508/07

All results reported in this Test Report are exclusively and specifically referred to the submitted sample. The present Test Report can be reproduced only in its entirety.  
The present Test Report must not be altered in any part or parts or copied for promotional or advertising purposes without the written authorisation of THEOLAB S.r.l.. The present Test Report consists of 3 page(s)

**Customer** ERM ITALIA SpA  
**Address** Via San Gregorio, 38  
 20154 Milano  
**Project/Contract** 0062523  
**Matrix Type** Soil  
**Date received** 01-mar-07  
**Customer Sample ID** MW11/36  
**Laboratory Sample ID** 01 / 25174  
**Test Report date of issue** 05-apr-07  
**Sampling Date** 23-feb-07  
**Sampling Procedure** Sampling activity carried out by the Customer  
**Notes** Type N

Compound Name	Amount and MU	UM	Date Prep Anal	MDL	Test Method Technique Prep Method	D.Lgs.152/06 P.IV-T.V- All.5 Tab.1/B
0 fraction sieved 2 mm dry basis at 105°C	86,7	%	02/03/2007 - 02/03/2007		D.M. 13/09/99 GU n° 248 Metodo II.1 Gravimetry D.M. 13/09/99 GU n° 248 Metodo II.1	
<b>Residues</b>						
0 residue at 105°C as total	89,8	%	01/03/2007 - 02/03/2007		CNR IRSA 2 Q 64 Vol 2 1984 Gravimetry CNR IRSA 2 Q 64 Vol 2 1984	
<b>Metals</b>						
0 arsenic as total and on dry basis at 105°C	3,24 ± 0,81	mg/Kg	05/03/2007 - 06/03/2007	0,04	EPA 6020A 1998 ICP-MS EPA 3051A 1998	< 50
0 cadmium as total and on dry basis at 105°C	0,0486 ± 0,012	mg/Kg	05/03/2007 - 06/03/2007	0,0042	EPA 6020A 1998 ICP-MS EPA 3051A 1998	< 15
0 chromium as total and on dry basis at 105°C	19,3 ± 4,8	mg/Kg	05/03/2007 - 06/03/2007	0,033	EPA 6020A 1998 ICP-MS EPA 3051A 1998	< 800
0 mercury as total and on dry basis at 105°C	<0,012	mg/Kg	05/03/2007 - 06/03/2007	0,012	EPA 6020A 1998 ICP-MS EPA 3051A 1998	< 5
0 nickel as total and on dry basis at 105°C	22,4 ± 5,6	mg/Kg	05/03/2007 - 06/03/2007	0,045	EPA 6020A 1998 ICP-MS EPA 3051A 1998	< 500
0 lead as total and on dry basis at 105°C	1,76 ± 0,44	mg/Kg	05/03/2007 - 06/03/2007	0,046	EPA 6020A 1998 ICP-MS EPA 3051A 1998	< 1000
0 copper as total and on dry basis at 105°C	10,9 ± 2,7	mg/Kg	05/03/2007 - 06/03/2007	0,08	EPA 6020A 1998 ICP-MS EPA 3051A 1998	< 600
0 zinc as total and on dry basis at 105°C	22,2 ± 5,5	mg/Kg	05/03/2007 - 06/03/2007	0,16	EPA 6020A 1998 ICP-MS EPA 3051A 1998	< 1500
<b>Metals</b>						
0 chromium (VI) as total and on dry basis at 105°C	0,0352 ± 0,011	mg/Kg	02/03/2007 - 02/03/2007	0,014	EPA 7199 Rev 0 1996 IC EPA 3060A 1996	< 15

Compound Name	Amount and MU	UM	Date Prep Anal	MDL	Test Method Technique Prep Method	D.Lgs.152/06 P.IV-T.V- All.5 Tab.1/B
# pentaerythrite as total and on dry basis at 105°C	<0,019	mg/Kg	02/03/2007 - 02/03/2007	0,019	SXLC001/05 LC/MS SXLC001/05	
# hexamethylenetetramine as total and on dry basis at 105°C	<0,0097	mg/Kg	05/03/2007 - 05/03/2007	0,0097	SXLC006/05 LC/MS SXLC006/05	
0 acetaldehyde as total and on dry basis at 105°C	0,0306 ± 0,0092	mg/Kg	06/03/2007 - 06/03/2007	0,0003	EPA 8315A 1996 LC/DAD EPA 8315A 1996	
0 formaldehyde as total and on dry basis at 105°C	0,0808 ± 0,024	mg/Kg	06/03/2007 - 06/03/2007	0,0005	EPA 8315A 1996 LC/DAD EPA 8315A 1996	
<b>HC Compounds</b>						
0 HC >C12 <C40 as total and on dry basis at 105°C	<0,98	mg/Kg	02/03/2007 - 02/03/2007	0,98	EPA 8015D 2003 GC/FID EPA 3550C 2000	< 750
0 TPH < C12 as total and on dry basis at 105°C	<0,21	mg/Kg	02/03/2007 - 03/03/2007	0,21	EPA 8015D 2003 GC/MS EPA 5035A 2002	< 250
<b>Alcohols</b>						
0 methanol as total and on dry basis at 105°C	<0,073	mg/Kg	02/03/2007 - 02/03/2007	0,073	EPA 8015D 2003 GC/FID EPA 5035A 2002	
<b>Semivolatile Aromatic amine</b>						
0 aniline as total and on dry basis at 105°C	<0,044	mg/Kg	02/03/2007 - 02/03/2007	0,044	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 5
<b>Phenolic Compounds</b>						
0 2,4,6-trichlorophenol as total and on dry basis at 105°C	<0,035	mg/Kg	02/03/2007 - 02/03/2007	0,035	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 5
0 2,4-dichlorophenol as total and on dry basis at 105°C	<0,015	mg/Kg	02/03/2007 - 02/03/2007	0,015	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 50
0 2-chlorophenol as total and on dry basis at 105°C	<0,046	mg/Kg	02/03/2007 - 02/03/2007	0,046	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 25
0 2-methylphenol as total and on dry basis at 105°C	<0,044	mg/Kg	02/03/2007 - 02/03/2007	0,044	EPA 8270D 2006 GC/MS EPA 3550C 2000	
0 3-methylphenol as total and on dry basis at 105°C	<0,041	mg/Kg	02/03/2007 - 02/03/2007	0,041	EPA 8270D 2006 GC/MS EPA 3550C 2000	
0 4-methylphenol as total and on dry basis at 105°C	<0,05	mg/Kg	02/03/2007 - 02/03/2007	0,05	EPA 8270D 2006 GC/MS EPA 3550C 2000	
0 phenol as total and on dry basis at 105°C	<0,048	mg/Kg	02/03/2007 - 02/03/2007	0,048	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 60
0 pentachlorophenol as total and on dry basis at 105°C	<0,045	mg/Kg	02/03/2007 - 02/03/2007	0,045	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 5
<b>PAHs</b>						
0 - total PAHs as total and on dry basis at 105°C	<0,058	mg/Kg	----- - 02/03/2007	0,058	EPA 8270D 2006 GC/MS	
0 benzo[a]anthracene as total and on dry basis at 105°C	<0,054	mg/Kg	02/03/2007 - 02/03/2007	0,054	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 benzo[a]pyrene as total and on dry basis at 105°C	<0,037	mg/Kg	02/03/2007 - 02/03/2007	0,037	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 benzo[b]fluoranthene as total and on dry basis at 105°C	<0,035	mg/Kg	02/03/2007 - 02/03/2007	0,035	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10

Compound Name	Amount and MU	UM	Date Prep Anal	MDL	Test Method Technique Prep Method	D.Lgs.152/06 P.IV-T.V- All.5 Tab.1/B
<b>PAHs</b>						
0 benzo[g,h,i]perylene as total and on dry basis at 105°C	<0,041	mg/Kg	02/03/2007 - 02/03/2007	0,041	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 benzo[k]fluoranthene as total and on dry basis at 105°C	<0,049	mg/Kg	02/03/2007 - 02/03/2007	0,049	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 chrysene as total and on dry basis at 105°C	<0,035	mg/Kg	02/03/2007 - 02/03/2007	0,035	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 50
0 dibenzo[a,e]pyrene as total and on dry basis at 105°C	<0,053	mg/Kg	02/03/2007 - 02/03/2007	0,053	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 dibenzo[a,h]anthracene as total and on dry basis at 105°C	<0,049	mg/Kg	02/03/2007 - 02/03/2007	0,049	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 dibenzo[a,h]pyrene as total and on dry basis at 105°C	<0,039	mg/Kg	02/03/2007 - 02/03/2007	0,039	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 dibenzo[a,i]pyrene as total and on dry basis at 105°C	<0,058	mg/Kg	02/03/2007 - 02/03/2007	0,058	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 dibenzo[a,l]pyrene as total and on dry basis at 105°C	<0,033	mg/Kg	02/03/2007 - 02/03/2007	0,033	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 indeno[1,2,3-cd]pyrene as total and on dry basis at 105°C	<0,039	mg/Kg	02/03/2007 - 02/03/2007	0,039	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 5
0 pyrene as total and on dry basis at 105°C	<0,05	mg/Kg	02/03/2007 - 02/03/2007	0,05	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 50

---

**Test Report End**


---

Parameters flagged with # have been carried out using test methods which are not included in the accredited tests list submitted to the Italian Accreditation Body SINAL.

Accredited parameters are flagged with a number designating the category for which they have been accredited for by the Italian Accreditation Body SINAL.

For the accredited test, run in compliance with the modality described in the Accreditation itself, SINAL guarantees:

the competence of the personnel, the availability of suitable instrumentation, and the compliance of the test to the recalled Test Method or Procedure.

"MDL" values indicate, if applicable, the Method Detection Limit (amended by all applicable correction coefficients) for each tested parameter according to the recalled Test Method or Procedure.

The reported Measurement Uncertainty is an Expanded calculated using a coverage factor of 2 with 95% confidence level.

Laboratory Manager



## TEST REPORT n° 162509/07

All results reported in this Test Report are exclusively and specifically referred to the submitted sample. The present Test Report can be reproduced only in its entirety.  
The present Test Report must not be altered in any part or parts or copied for promotional or advertising purposes without the written authorisation of THEOLAB S.r.l.. The present Test Report consists of 3 page(s)

<b>Customer</b>	<b>ERM ITALIA SpA</b>	
<b>Address</b>	<b>Via San Gregorio, 38</b>	
	<b>20154 Milano</b>	
<b>Project/Contract</b>	<b>0062523</b>	
<b>Matrix Type</b>	<b>Soil</b>	
<b>Date received</b>	<b>01-mar-07</b>	
<b>Customer Sample ID</b>	<b>MW11/60</b>	<b>Type N</b>
<b>Laboratory Sample ID</b>	<b>02 / 25174</b>	
<b>Test Report date of issue</b>	<b>05-apr-07</b>	
<b>Sampling Date</b>	<b>26-feb-07</b>	
<b>Sampling Procedure</b>	<b>Sampling activity carried out by the Customer</b>	
<b>Notes</b>		

Compound Name	Amount and MU	UM	Date Prep Anal	MDL	Test Method Technique Prep Method	D.Lgs.152/06 P.IV-T.V- All.5 Tab.1/B
0 fraction sieved 2 mm dry basis at 105°C	79,7	%	02/03/2007 - 02/03/2007		D.M. 13/09/99 GU n° 248 Metodo II.1 Gravimetry D.M. 13/09/99 GU n° 248 Metodo II.1	
<b>Residues</b>						
0 residue at 105°C as total	87,9	%	01/03/2007 - 02/03/2007		CNR IRSA 2 Q 64 Vol 2 1984 Gravimetry CNR IRSA 2 Q 64 Vol 2 1984	
<b>Metals</b>						
0 arsenic as total and on dry basis at 105°C	4,49 ± 1,1	mg/Kg	05/03/2007 - 06/03/2007	0,036	EPA 6020A 1998 ICP-MS EPA 3051A 1998	< 50
0 cadmium as total and on dry basis at 105°C	0,0543 ± 0,014	mg/Kg	05/03/2007 - 06/03/2007	0,0037	EPA 6020A 1998 ICP-MS EPA 3051A 1998	< 15
0 chromium as total and on dry basis at 105°C	31 ± 7,7	mg/Kg	05/03/2007 - 06/03/2007	0,03	EPA 6020A 1998 ICP-MS EPA 3051A 1998	< 800
0 mercury as total and on dry basis at 105°C	<0,011	mg/Kg	05/03/2007 - 06/03/2007	0,011	EPA 6020A 1998 ICP-MS EPA 3051A 1998	< 5
0 nickel as total and on dry basis at 105°C	29,7 ± 7,4	mg/Kg	05/03/2007 - 06/03/2007	0,04	EPA 6020A 1998 ICP-MS EPA 3051A 1998	< 500
0 lead as total and on dry basis at 105°C	2,36 ± 0,59	mg/Kg	05/03/2007 - 06/03/2007	0,041	EPA 6020A 1998 ICP-MS EPA 3051A 1998	< 1000
0 copper as total and on dry basis at 105°C	10,2 ± 2,6	mg/Kg	05/03/2007 - 06/03/2007	0,071	EPA 6020A 1998 ICP-MS EPA 3051A 1998	< 600
0 zinc as total and on dry basis at 105°C	26,4 ± 6,6	mg/Kg	05/03/2007 - 06/03/2007	0,14	EPA 6020A 1998 ICP-MS EPA 3051A 1998	< 1500
<b>Metals</b>						
0 chromium (VI) as total and on dry basis at 105°C	0,129 ± 0,039	mg/Kg	02/03/2007 - 02/03/2007	0,013	EPA 7199 Rev 0 1996 IC EPA 3060A 1996	< 15

Compound Name	Amount and MU	UM	Date Prep Anal	MDL	Test Method Technique Prep Method	D.Lgs.152/06 P.IV-T.V- All.5 Tab.1/B
# pentaerythrite as total and on dry basis at 105°C	<0,018	mg/Kg	02/03/2007 - 02/03/2007	0,018	SXLC001/05 LC/MS SXLC001/05	
# hexamethylenetetramine as total and on dry basis at 105°C	<0,0091	mg/Kg	05/03/2007 - 05/03/2007	0,0091	SXLC006/05 LC/MS SXLC006/05	
0 acetaldehyde as total and on dry basis at 105°C	0,0352 ± 0,011	mg/Kg	06/03/2007 - 06/03/2007	0,00028	EPA 8315A 1996 LC/DAD EPA 8315A 1996	
0 formaldehyde as total and on dry basis at 105°C	0,0739 ± 0,022	mg/Kg	06/03/2007 - 06/03/2007	0,00048	EPA 8315A 1996 LC/DAD EPA 8315A 1996	
<b>HC Compounds</b>						
0 HC >C12 <C40 as total and on dry basis at 105°C	<0,91	mg/Kg	02/03/2007 - 02/03/2007	0,91	EPA 8015D 2003 GC/FID EPA 3550C 2000	< 750
0 TPH < C12 as total and on dry basis at 105°C	<0,18	mg/Kg	02/03/2007 - 03/03/2007	0,18	EPA 8015D 2003 GC/MS EPA 5035A 2002	< 250
<b>Alcohols</b>						
0 methanol as total and on dry basis at 105°C	<0,065	mg/Kg	02/03/2007 - 02/03/2007	0,065	EPA 8015D 2003 GC/FID EPA 5035A 2002	
<b>Semivolatile Aromatic amine</b>						
0 aniline as total and on dry basis at 105°C	<0,044	mg/Kg	02/03/2007 - 02/03/2007	0,044	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 5
<b>Phenolic Compounds</b>						
0 2,4,6-trichlorophenol as total and on dry basis at 105°C	<0,035	mg/Kg	02/03/2007 - 02/03/2007	0,035	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 5
0 2,4-dichlorophenol as total and on dry basis at 105°C	<0,015	mg/Kg	02/03/2007 - 02/03/2007	0,015	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 50
0 2-chlorophenol as total and on dry basis at 105°C	<0,047	mg/Kg	02/03/2007 - 02/03/2007	0,047	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 25
0 2-methylphenol as total and on dry basis at 105°C	<0,044	mg/Kg	02/03/2007 - 02/03/2007	0,044	EPA 8270D 2006 GC/MS EPA 3550C 2000	
0 3-methylphenol as total and on dry basis at 105°C	<0,041	mg/Kg	02/03/2007 - 02/03/2007	0,041	EPA 8270D 2006 GC/MS EPA 3550C 2000	
0 4-methylphenol as total and on dry basis at 105°C	<0,051	mg/Kg	02/03/2007 - 02/03/2007	0,051	EPA 8270D 2006 GC/MS EPA 3550C 2000	
0 phenol as total and on dry basis at 105°C	<0,049	mg/Kg	02/03/2007 - 02/03/2007	0,049	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 60
0 pentachlorophenol as total and on dry basis at 105°C	<0,045	mg/Kg	02/03/2007 - 02/03/2007	0,045	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 5
<b>PAHs</b>						
0 - total PAHs as total and on dry basis at 105°C	<0,058	mg/Kg	----- - 02/03/2007	0,058	EPA 8270D 2006 GC/MS	
0 benzo[a]anthracene as total and on dry basis at 105°C	<0,054	mg/Kg	02/03/2007 - 02/03/2007	0,054	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 benzo[a]pyrene as total and on dry basis at 105°C	<0,037	mg/Kg	02/03/2007 - 02/03/2007	0,037	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 benzo[b]fluoranthene as total and on dry basis at 105°C	<0,035	mg/Kg	02/03/2007 - 02/03/2007	0,035	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10

Compound Name	Amount and MU	UM	Date Prep Anal	MDL	Test Method Technique Prep Method	D.Lgs.152/06 P.IV-T.V- All.5 Tab.1/B
<b>PAHs</b>						
0 benzo[g,h,i]perylene as total and on dry basis at 105°C	<0,041	mg/Kg	02/03/2007 - 02/03/2007	0,041	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 benzo[k]fluoranthene as total and on dry basis at 105°C	<0,05	mg/Kg	02/03/2007 - 02/03/2007	0,05	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 chrysene as total and on dry basis at 105°C	<0,035	mg/Kg	02/03/2007 - 02/03/2007	0,035	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 50
0 dibenzo[a,e]pyrene as total and on dry basis at 105°C	<0,054	mg/Kg	02/03/2007 - 02/03/2007	0,054	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 dibenzo[a,h]anthracene as total and on dry basis at 105°C	<0,049	mg/Kg	02/03/2007 - 02/03/2007	0,049	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 dibenzo[a,h]pyrene as total and on dry basis at 105°C	<0,039	mg/Kg	02/03/2007 - 02/03/2007	0,039	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 dibenzo[a,i]pyrene as total and on dry basis at 105°C	<0,058	mg/Kg	02/03/2007 - 02/03/2007	0,058	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 dibenzo[a,l]pyrene as total and on dry basis at 105°C	<0,033	mg/Kg	02/03/2007 - 02/03/2007	0,033	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 indeno[1,2,3-cd]pyrene as total and on dry basis at 105°C	<0,039	mg/Kg	02/03/2007 - 02/03/2007	0,039	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 5
0 pyrene as total and on dry basis at 105°C	<0,05	mg/Kg	02/03/2007 - 02/03/2007	0,05	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 50

Test Report End

Parameters flagged with # have been carried out using test methods which are not included in the accredited tests list submitted to the Italian Accreditation Body SINAL.

Accredited parameters are flagged with a number designating the category for which they have been accredited for by the Italian Accreditation Body SINAL.

For the accredited test, run in compliance with the modality described in the Accreditation itself, SINAL guarantees:

the competence of the personnel, the availability of suitable instrumentation, and the compliance of the test to the recalled Test Method or Procedure.

"MDL" values indicate, if applicable, the Method Detection Limit (amended by all applicable correction coefficients) for each tested parameter according to the recalled Test Method or Procedure.

The reported Measurement Uncertainty is an Expanded calculated using a coverage factor of 2 with 95% confidence level.

Laboratory Manager



## TEST REPORT n° 162510/07

All results reported in this Test Report are exclusively and specifically referred to the submitted sample. The present Test Report can be reproduced only in its entirety.  
The present Test Report must not be altered in any part or parts or copied for promotional or advertising purposes without the written authorisation of THEOLAB S.r.l.. The present Test Report consists of 3 page(s)

**Customer** ERM ITALIA SpA  
**Address** Via San Gregorio, 38  
 20154 Milano  
**Project/Contract** 0062523  
**Matrix Type** Soil  
**Date received** 01-mar-07  
**Customer Sample ID** MW7/1  
**Laboratory Sample ID** 03 / 25174  
**Test Report date of issue** 05-apr-07  
**Sampling Date** 27-feb-07  
**Sampling Procedure** Sampling activity carried out by the Customer  
**Notes** Type N

Compound Name	Amount and MU	UM	Date Prep Anal	MDL	Test Method Technique Prep Method	D.Lgs.152/06 P.IV-T.V- All.5 Tab.1/B
0 fraction sieved 2 mm dry basis at 105°C	29	%	02/03/2007 - 02/03/2007		D.M. 13/09/99 GU n° 248 Metodo II.1 Gravimetry D.M. 13/09/99 GU n° 248 Metodo II.1	
<b>Residues</b>						
0 residue at 105°C as total	90,6	%	01/03/2007 - 02/03/2007		CNR IRSA 2 Q 64 Vol 2 1984 Gravimetry CNR IRSA 2 Q 64 Vol 2 1984	
<b>Metals</b>						
0 arsenic as total and on dry basis at 105°C	3,87 ± 0,97	mg/Kg	05/03/2007 - 06/03/2007	0,013	EPA 6020A 1998 ICP-MS EPA 3051A 1998	< 50
0 cadmium as total and on dry basis at 105°C	0,036 ± 0,009	mg/Kg	05/03/2007 - 06/03/2007	0,0014	EPA 6020A 1998 ICP-MS EPA 3051A 1998	< 15
0 chromium as total and on dry basis at 105°C	6,72 ± 1,7	mg/Kg	05/03/2007 - 06/03/2007	0,011	EPA 6020A 1998 ICP-MS EPA 3051A 1998	< 800
0 mercury as total and on dry basis at 105°C	<0,0039	mg/Kg	05/03/2007 - 06/03/2007	0,0039	EPA 6020A 1998 ICP-MS EPA 3051A 1998	< 5
0 nickel as total and on dry basis at 105°C	5,23 ± 1,3	mg/Kg	05/03/2007 - 06/03/2007	0,015	EPA 6020A 1998 ICP-MS EPA 3051A 1998	< 500
0 lead as total and on dry basis at 105°C	1,73 ± 0,43	mg/Kg	05/03/2007 - 06/03/2007	0,015	EPA 6020A 1998 ICP-MS EPA 3051A 1998	< 1000
0 copper as total and on dry basis at 105°C	3,87 ± 0,97	mg/Kg	05/03/2007 - 06/03/2007	0,026	EPA 6020A 1998 ICP-MS EPA 3051A 1998	< 600
0 zinc as total and on dry basis at 105°C	16,5 ± 4,1	mg/Kg	05/03/2007 - 06/03/2007	0,053	EPA 6020A 1998 ICP-MS EPA 3051A 1998	< 1500
<b>Metals</b>						
0 chromium (VI) as total and on dry basis at 105°C	0,0488 ± 0,015	mg/Kg	02/03/2007 - 02/03/2007	0,0047	EPA 7199 Rev 0 1996 IC EPA 3060A 1996	< 15



Compound Name	Amount and MU	UM	Date Prep Anal	MDL	Test Method Technique Prep Method	D.Lgs.152/06 P.IV-T.V- All.5 Tab.1/B
# pentaerythrite as total and on dry basis at 105°C	<0,0064	mg/Kg	02/03/2007 - 02/03/2007	0,0064	SXLC001/05 LC/MS SXLC001/05	
# hexamethylenetetramine as total and on dry basis at 105°C	<0,0032	mg/Kg	05/03/2007 - 05/03/2007	0,0032	SXLC006/05 LC/MS SXLC006/05	
0 acetaldehyde as total and on dry basis at 105°C	0,00981 ± 0,0029	mg/Kg	06/03/2007 - 06/03/2007	0,000099	EPA 8315A 1996 LC/DAD EPA 8315A 1996	
0 formaldehyde as total and on dry basis at 105°C	0,0243 ± 0,0073	mg/Kg	06/03/2007 - 06/03/2007	0,00017	EPA 8315A 1996 LC/DAD EPA 8315A 1996	
<b>HC Compounds</b>						
0 HC >C12 <C40 as total and on dry basis at 105°C	0,512 ± 0,15	mg/Kg	02/03/2007 - 02/03/2007	0,48	EPA 8015D 2003 GC/FID EPA 3550C 2000	< 750
0 TPH < C12 as total and on dry basis at 105°C	<0,081	mg/Kg	02/03/2007 - 03/03/2007	0,081	EPA 8015D 2003 GC/MS EPA 5035A 2002	< 250
<b>Alcohols</b>						
0 methanol as total and on dry basis at 105°C	<0,0081	mg/Kg	02/03/2007 - 02/03/2007	0,0081	EPA 8015D 2003 GC/FID EPA 5035A 2002	
<b>Semivolatile Aromatic amine</b>						
0 aniline as total and on dry basis at 105°C	<0,016	mg/Kg	02/03/2007 - 02/03/2007	0,016	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 5
<b>Phenolic Compounds</b>						
0 2,4,6-trichlorophenol as total and on dry basis at 105°C	<0,012	mg/Kg	02/03/2007 - 02/03/2007	0,012	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 5
0 2,4-dichlorophenol as total and on dry basis at 105°C	<0,0055	mg/Kg	02/03/2007 - 02/03/2007	0,0055	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 50
0 2-chlorophenol as total and on dry basis at 105°C	<0,017	mg/Kg	02/03/2007 - 02/03/2007	0,017	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 25
0 2-methylphenol as total and on dry basis at 105°C	<0,016	mg/Kg	02/03/2007 - 02/03/2007	0,016	EPA 8270D 2006 GC/MS EPA 3550C 2000	
0 3-methylphenol as total and on dry basis at 105°C	<0,015	mg/Kg	02/03/2007 - 02/03/2007	0,015	EPA 8270D 2006 GC/MS EPA 3550C 2000	
0 4-methylphenol as total and on dry basis at 105°C	<0,018	mg/Kg	02/03/2007 - 02/03/2007	0,018	EPA 8270D 2006 GC/MS EPA 3550C 2000	
0 phenol as total and on dry basis at 105°C	<0,017	mg/Kg	02/03/2007 - 02/03/2007	0,017	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 60
0 pentachlorophenol as total and on dry basis at 105°C	<0,016	mg/Kg	02/03/2007 - 02/03/2007	0,016	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 5
<b>PAHs</b>						
0 - total PAHs as total and on dry basis at 105°C	<0,021	mg/Kg	----- - 02/03/2007	0,021	EPA 8270D 2006 GC/MS	
0 benzo[a]anthracene as total and on dry basis at 105°C	<0,019	mg/Kg	02/03/2007 - 02/03/2007	0,019	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 benzo[a]pyrene as total and on dry basis at 105°C	<0,013	mg/Kg	02/03/2007 - 02/03/2007	0,013	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 benzo[b]fluoranthene as total and on dry basis at 105°C	<0,013	mg/Kg	02/03/2007 - 02/03/2007	0,013	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10



Compound Name	Amount and MU	UM	Date Prep Anal	MDL	Test Method Technique Prep Method	D.Lgs.152/06 P.IV-T.V- All.5 Tab.1/B
<b>PAHs</b>						
0 benzo[g,h,i]perylene as total and on dry basis at 105°C	<0,015	mg/Kg	02/03/2007 - 02/03/2007	0,015	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 benzo[k]fluoranthene as total and on dry basis at 105°C	<0,018	mg/Kg	02/03/2007 - 02/03/2007	0,018	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 chrysene as total and on dry basis at 105°C	<0,013	mg/Kg	02/03/2007 - 02/03/2007	0,013	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 50
0 dibenzo[a,e]pyrene as total and on dry basis at 105°C	<0,019	mg/Kg	02/03/2007 - 02/03/2007	0,019	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 dibenzo[a,h]anthracene as total and on dry basis at 105°C	<0,018	mg/Kg	02/03/2007 - 02/03/2007	0,018	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 dibenzo[a,h]pyrene as total and on dry basis at 105°C	<0,014	mg/Kg	02/03/2007 - 02/03/2007	0,014	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 dibenzo[a,i]pyrene as total and on dry basis at 105°C	<0,021	mg/Kg	02/03/2007 - 02/03/2007	0,021	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 dibenzo[a,l]pyrene as total and on dry basis at 105°C	<0,012	mg/Kg	02/03/2007 - 02/03/2007	0,012	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 indeno[1,2,3-cd]pyrene as total and on dry basis at 105°C	<0,014	mg/Kg	02/03/2007 - 02/03/2007	0,014	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 5
0 pyrene as total and on dry basis at 105°C	<0,018	mg/Kg	02/03/2007 - 02/03/2007	0,018	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 50

---

**Test Report End**


---

Parameters flagged with # have been carried out using test methods which are not included in the accredited tests list submitted to the Italian Accreditation Body SINAL.

Accredited parameters are flagged with a number designating the category for which they have been accredited for by the Italian Accreditation Body SINAL.

For the accredited test, run in compliance with the modality described in the Accreditation itself, SINAL guarantees:

the competence of the personnel, the availability of suitable instrumentation, and the compliance of the test to the recalled Test Method or Procedure.

"MDL" values indicate, if applicable, the Method Detection Limit (amended by all applicable correction coefficients) for each tested parameter according to the recalled Test Method or Procedure.

The reported Measurement Uncertainty is an Expanded calculated using a coverage factor of 2 with 95% confidence level.

Laboratory Manager



## TEST REPORT n° 162511/07

All results reported in this Test Report are exclusively and specifically referred to the submitted sample. The present Test Report can be reproduced only in its entirety.  
The present Test Report must not be altered in any part or parts or copied for promotional or advertising purposes without the written authorisation of THEOLAB S.r.l.. The present Test Report consists of 3 page(s)

**Customer** ERM ITALIA SpA  
**Address** Via San Gregorio, 38  
 20154 Milano  
**Project/Contract** 0062523  
**Matrix Type** Soil  
**Date received** 01-mar-07  
**Customer Sample ID** MW7/5  
**Laboratory Sample ID** 04 / 25174  
**Test Report date of issue** 05-apr-07  
**Sampling Date** 27-feb-07  
**Sampling Procedure** Sampling activity carried out by the Customer  
**Notes** Type N

Compound Name	Amount and MU	UM	Date Prep Anal	MDL	Test Method Technique Prep Method	D.Lgs.152/06 P.IV-T.V- All.5 Tab.1/B
0 fraction sieved 2 mm dry basis at 105°C	45	%	02/03/2007 - 02/03/2007		D.M. 13/09/99 GU n° 248 Metodo II.1 Gravimetry D.M. 13/09/99 GU n° 248 Metodo II.1	
<b>Residues</b>						
0 residue at 105°C as total	86,4	%	01/03/2007 - 02/03/2007		CNR IRSA 2 Q 64 Vol 2 1984 Gravimetry CNR IRSA 2 Q 64 Vol 2 1984	
<b>Metals</b>						
0 arsenic as total and on dry basis at 105°C	3,28 ± 0,82	mg/Kg	05/03/2007 - 06/03/2007	0,02	EPA 6020A 1998 ICP-MS EPA 3051A 1998	< 50
0 cadmium as total and on dry basis at 105°C	0,131 ± 0,033	mg/Kg	05/03/2007 - 06/03/2007	0,002	EPA 6020A 1998 ICP-MS EPA 3051A 1998	< 15
0 chromium as total and on dry basis at 105°C	16,3 ± 4,1	mg/Kg	05/03/2007 - 06/03/2007	0,016	EPA 6020A 1998 ICP-MS EPA 3051A 1998	< 800
0 mercury as total and on dry basis at 105°C	<0,0058	mg/Kg	05/03/2007 - 06/03/2007	0,0058	EPA 6020A 1998 ICP-MS EPA 3051A 1998	< 5
0 nickel as total and on dry basis at 105°C	9,95 ± 2,5	mg/Kg	05/03/2007 - 06/03/2007	0,022	EPA 6020A 1998 ICP-MS EPA 3051A 1998	< 500
0 lead as total and on dry basis at 105°C	2,06 ± 0,52	mg/Kg	05/03/2007 - 06/03/2007	0,023	EPA 6020A 1998 ICP-MS EPA 3051A 1998	< 1000
0 copper as total and on dry basis at 105°C	12,2 ± 3,1	mg/Kg	05/03/2007 - 06/03/2007	0,039	EPA 6020A 1998 ICP-MS EPA 3051A 1998	< 600
0 zinc as total and on dry basis at 105°C	30,7 ± 7,7	mg/Kg	05/03/2007 - 06/03/2007	0,078	EPA 6020A 1998 ICP-MS EPA 3051A 1998	< 1500
<b>Metals</b>						
0 chromium (VI) as total and on dry basis at 105°C	<0,0073	mg/Kg	02/03/2007 - 02/03/2007	0,0073	EPA 7199 Rev 0 1996 IC EPA 3060A 1996	< 15

Compound Name	Amount and MU	UM	Date Prep Anal	MDL	Test Method Technique Prep Method	D.Lgs.152/06 P.IV-T.V- All.5 Tab.1/B
# pentaerythrite as total and on dry basis at 105°C	<0,01	mg/Kg	02/03/2007 - 02/03/2007	0,01	SXLC001/05 LC/MS SXLC001/05	
# hexamethylenetetramine as total and on dry basis at 105°C	<0,0052	mg/Kg	05/03/2007 - 05/03/2007	0,0052	SXLC006/05 LC/MS SXLC006/05	
0 acetaldehyde as total and on dry basis at 105°C	0,0195 ± 0,0059	mg/Kg	06/03/2007 - 06/03/2007	0,00015	EPA 8315A 1996 LC/DAD EPA 8315A 1996	
0 formaldehyde as total and on dry basis at 105°C	0,0548 ± 0,016	mg/Kg	06/03/2007 - 06/03/2007	0,00026	EPA 8315A 1996 LC/DAD EPA 8315A 1996	
<b>HC Compounds</b>						
0 HC >C12 <C40 as total and on dry basis at 105°C	1,33 ± 0,4	mg/Kg	02/03/2007 - 02/03/2007	0,53	EPA 8015D 2003 GC/FID EPA 3550C 2000	< 750
0 TPH < C12 as total and on dry basis at 105°C	<0,13	mg/Kg	02/03/2007 - 03/03/2007	0,13	EPA 8015D 2003 GC/MS EPA 5035A 2002	< 250
<b>Alcohols</b>						
0 methanol as total and on dry basis at 105°C	<0,021	mg/Kg	02/03/2007 - 02/03/2007	0,021	EPA 8015D 2003 GC/FID EPA 5035A 2002	
<b>Semivolatile Aromatic amine</b>						
0 aniline as total and on dry basis at 105°C	<0,025	mg/Kg	02/03/2007 - 02/03/2007	0,025	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 5
<b>Phenolic Compounds</b>						
0 2,4,6-trichlorophenol as total and on dry basis at 105°C	<0,02	mg/Kg	02/03/2007 - 02/03/2007	0,02	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 5
0 2,4-dichlorophenol as total and on dry basis at 105°C	<0,0087	mg/Kg	02/03/2007 - 02/03/2007	0,0087	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 50
0 2-chlorophenol as total and on dry basis at 105°C	<0,026	mg/Kg	02/03/2007 - 02/03/2007	0,026	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 25
0 2-methylphenol as total and on dry basis at 105°C	<0,025	mg/Kg	02/03/2007 - 02/03/2007	0,025	EPA 8270D 2006 GC/MS EPA 3550C 2000	
0 3-methylphenol as total and on dry basis at 105°C	<0,023	mg/Kg	02/03/2007 - 02/03/2007	0,023	EPA 8270D 2006 GC/MS EPA 3550C 2000	
0 4-methylphenol as total and on dry basis at 105°C	<0,029	mg/Kg	02/03/2007 - 02/03/2007	0,029	EPA 8270D 2006 GC/MS EPA 3550C 2000	
0 phenol as total and on dry basis at 105°C	<0,028	mg/Kg	02/03/2007 - 02/03/2007	0,028	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 60
0 pentachlorophenol as total and on dry basis at 105°C	<0,026	mg/Kg	02/03/2007 - 02/03/2007	0,026	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 5
<b>PAHs</b>						
0 - total PAHs as total and on dry basis at 105°C	<0,033	mg/Kg	----- - 02/03/2007	0,033	EPA 8270D 2006 GC/MS	
0 benzo[a]anthracene as total and on dry basis at 105°C	<0,031	mg/Kg	02/03/2007 - 02/03/2007	0,031	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 benzo[a]pyrene as total and on dry basis at 105°C	<0,021	mg/Kg	02/03/2007 - 02/03/2007	0,021	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 benzo[b]fluoranthene as total and on dry basis at 105°C	<0,02	mg/Kg	02/03/2007 - 02/03/2007	0,02	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10

Compound Name	Amount and MU	UM	Date Prep Anal	MDL	Test Method Technique Prep Method	D.Lgs.152/06 P.IV-T.V- All.5 Tab.1/B
<b>PAHs</b>						
0 benzo[g,h,i]perylene as total and on dry basis at 105°C	<0,023	mg/Kg	02/03/2007 - 02/03/2007	0,023	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 benzo[k]fluoranthene as total and on dry basis at 105°C	<0,028	mg/Kg	02/03/2007 - 02/03/2007	0,028	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 chrysene as total and on dry basis at 105°C	<0,02	mg/Kg	02/03/2007 - 02/03/2007	0,02	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 50
0 dibenzo[a,e]pyrene as total and on dry basis at 105°C	<0,03	mg/Kg	02/03/2007 - 02/03/2007	0,03	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 dibenzo[a,h]anthracene as total and on dry basis at 105°C	<0,028	mg/Kg	02/03/2007 - 02/03/2007	0,028	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 dibenzo[a,h]pyrene as total and on dry basis at 105°C	<0,022	mg/Kg	02/03/2007 - 02/03/2007	0,022	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 dibenzo[a,i]pyrene as total and on dry basis at 105°C	<0,033	mg/Kg	02/03/2007 - 02/03/2007	0,033	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 dibenzo[a,l]pyrene as total and on dry basis at 105°C	<0,019	mg/Kg	02/03/2007 - 02/03/2007	0,019	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 indeno[1,2,3-cd]pyrene as total and on dry basis at 105°C	<0,022	mg/Kg	02/03/2007 - 02/03/2007	0,022	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 5
0 pyrene as total and on dry basis at 105°C	<0,028	mg/Kg	02/03/2007 - 02/03/2007	0,028	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 50

---

**Test Report End**


---

Parameters flagged with # have been carried out using test methods which are not included in the accredited tests list submitted to the Italian Accreditation Body SINAL.

Accredited parameters are flagged with a number designating the category for which they have been accredited for by the Italian Accreditation Body SINAL.

For the accredited test, run in compliance with the modality described in the Accreditation itself, SINAL guarantees:

the competence of the personnel, the availability of suitable instrumentation, and the compliance of the test to the recalled Test Method or Procedure.

"MDL" values indicate, if applicable, the Method Detection Limit (amended by all applicable correction coefficients) for each tested parameter according to the recalled Test Method or Procedure.

The reported Measurement Uncertainty is an Expanded calculated using a coverage factor of 2 with 95% confidence level.

Laboratory Manager



## TEST REPORT n° 162512/07

All results reported in this Test Report are exclusively and specifically referred to the submitted sample. The present Test Report can be reproduced only in its entirety.  
The present Test Report must not be altered in any part or parts or copied for promotional or advertising purposes without the written authorisation of THEOLAB S.r.l.. The present Test Report consists of 3 page(s)

<b>Customer</b>	<b>ERM ITALIA SpA</b>	
<b>Address</b>	<b>Via San Gregorio, 38</b>	
	<b>20154 Milano</b>	
<b>Project/Contract</b>	<b>0062523</b>	
<b>Matrix Type</b>	<b>Soil</b>	
<b>Date received</b>	<b>01-mar-07</b>	
<b>Customer Sample ID</b>	<b>MW7/10</b>	<b>Type N</b>
<b>Laboratory Sample ID</b>	<b>05 / 25174</b>	
<b>Test Report date of issue</b>	<b>05-apr-07</b>	
<b>Sampling Date</b>	<b>27-feb-07</b>	
<b>Sampling Procedure</b>	<b>Sampling activity carried out by the Customer</b>	
<b>Notes</b>		

Compound Name	Amount and MU	UM	Date Prep Anal	MDL	Test Method Technique Prep Method	D.Lgs.152/06 P.IV-T.V- All.5 Tab.1/B
0 fraction sieved 2 mm dry basis at 105°C	63	%	02/03/2007 - 02/03/2007		D.M. 13/09/99 GU n° 248 Metodo II.1 Gravimetry D.M. 13/09/99 GU n° 248 Metodo II.1	
<b>Residues</b>						
0 residue at 105°C as total	86,3	%	01/03/2007 - 02/03/2007		CNR IRSA 2 Q 64 Vol 2 1984 Gravimetry CNR IRSA 2 Q 64 Vol 2 1984	
<b>Metals</b>						
0 arsenic as total and on dry basis at 105°C	3,35 ± 0,84	mg/Kg	05/03/2007 - 06/03/2007	0,028	EPA 6020A 1998 ICP-MS EPA 3051A 1998	< 50
0 cadmium as total and on dry basis at 105°C	0,085 ± 0,021	mg/Kg	05/03/2007 - 06/03/2007	0,003	EPA 6020A 1998 ICP-MS EPA 3051A 1998	< 15
0 chromium as total and on dry basis at 105°C	11,1 ± 2,8	mg/Kg	05/03/2007 - 06/03/2007	0,024	EPA 6020A 1998 ICP-MS EPA 3051A 1998	< 800
0 mercury as total and on dry basis at 105°C	<0,0083	mg/Kg	05/03/2007 - 06/03/2007	0,0083	EPA 6020A 1998 ICP-MS EPA 3051A 1998	< 5
0 nickel as total and on dry basis at 105°C	9,05 ± 2,3	mg/Kg	05/03/2007 - 06/03/2007	0,032	EPA 6020A 1998 ICP-MS EPA 3051A 1998	< 500
0 lead as total and on dry basis at 105°C	1,95 ± 0,49	mg/Kg	05/03/2007 - 06/03/2007	0,033	EPA 6020A 1998 ICP-MS EPA 3051A 1998	< 1000
0 copper as total and on dry basis at 105°C	7,63 ± 1,9	mg/Kg	05/03/2007 - 06/03/2007	0,056	EPA 6020A 1998 ICP-MS EPA 3051A 1998	< 600
0 zinc as total and on dry basis at 105°C	24,2 ± 6,1	mg/Kg	05/03/2007 - 06/03/2007	0,11	EPA 6020A 1998 ICP-MS EPA 3051A 1998	< 1500
<b>Metals</b>						
0 chromium (VI) as total and on dry basis at 105°C	<0,011	mg/Kg	02/03/2007 - 02/03/2007	0,011	EPA 7199 Rev 0 1996 IC EPA 3060A 1996	< 15

Compound Name	Amount and MU	UM	Date Prep Anal	MDL	Test Method Technique Prep Method	D.Lgs.152/06 P.IV-T.V- All.5 Tab.1/B
# pentaerythrite as total and on dry basis at 105°C	<0,015	mg/Kg	02/03/2007 - 02/03/2007	0,015	SXLC001/05 LC/MS SXLC001/05	
# hexamethylenetetramine as total and on dry basis at 105°C	<0,0073	mg/Kg	05/03/2007 - 05/03/2007	0,0073	SXLC006/05 LC/MS SXLC006/05	
0 acetaldehyde as total and on dry basis at 105°C	0,026 ± 0,0078	mg/Kg	06/03/2007 - 06/03/2007	0,00021	EPA 8315A 1996 LC/DAD EPA 8315A 1996	
0 formaldehyde as total and on dry basis at 105°C	0,0656 ± 0,02	mg/Kg	06/03/2007 - 06/03/2007	0,00035	EPA 8315A 1996 LC/DAD EPA 8315A 1996	
<b>HC Compounds</b>						
0 HC >C12 <C40 as total and on dry basis at 105°C	2,67 ± 0,8	mg/Kg	02/03/2007 - 02/03/2007	0,72	EPA 8015D 2003 GC/FID EPA 3550C 2000	< 750
0 TPH < C12 as total and on dry basis at 105°C	<0,13	mg/Kg	02/03/2007 - 03/03/2007	0,13	EPA 8015D 2003 GC/MS EPA 5035A 2002	< 250
<b>Alcohols</b>						
0 methanol as total and on dry basis at 105°C	<0,041	mg/Kg	02/03/2007 - 02/03/2007	0,041	EPA 8015D 2003 GC/FID EPA 5035A 2002	
<b>Semivolatile Aromatic amine</b>						
0 aniline as total and on dry basis at 105°C	<0,034	mg/Kg	02/03/2007 - 02/03/2007	0,034	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 5
<b>Phenolic Compounds</b>						
0 2,4,6-trichlorophenol as total and on dry basis at 105°C	<0,027	mg/Kg	02/03/2007 - 02/03/2007	0,027	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 5
0 2,4-dichlorophenol as total and on dry basis at 105°C	<0,012	mg/Kg	02/03/2007 - 02/03/2007	0,012	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 50
0 2-chlorophenol as total and on dry basis at 105°C	<0,036	mg/Kg	02/03/2007 - 02/03/2007	0,036	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 25
0 2-methylphenol as total and on dry basis at 105°C	<0,034	mg/Kg	02/03/2007 - 02/03/2007	0,034	EPA 8270D 2006 GC/MS EPA 3550C 2000	
0 3-methylphenol as total and on dry basis at 105°C	<0,031	mg/Kg	02/03/2007 - 02/03/2007	0,031	EPA 8270D 2006 GC/MS EPA 3550C 2000	
0 4-methylphenol as total and on dry basis at 105°C	<0,039	mg/Kg	02/03/2007 - 02/03/2007	0,039	EPA 8270D 2006 GC/MS EPA 3550C 2000	
0 phenol as total and on dry basis at 105°C	<0,037	mg/Kg	02/03/2007 - 02/03/2007	0,037	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 60
0 pentachlorophenol as total and on dry basis at 105°C	<0,035	mg/Kg	02/03/2007 - 02/03/2007	0,035	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 5
<b>PAHs</b>						
0 - total PAHs as total and on dry basis at 105°C	<0,044	mg/Kg	----- - 02/03/2007	0,044	EPA 8270D 2006 GC/MS	
0 benzo[a]anthracene as total and on dry basis at 105°C	<0,042	mg/Kg	02/03/2007 - 02/03/2007	0,042	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 benzo[a]pyrene as total and on dry basis at 105°C	<0,029	mg/Kg	02/03/2007 - 02/03/2007	0,029	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 benzo[b]fluoranthene as total and on dry basis at 105°C	<0,027	mg/Kg	02/03/2007 - 02/03/2007	0,027	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10

Compound Name	Amount and MU	UM	Date Prep Anal	MDL	Test Method Technique Prep Method	D.Lgs.152/06 P.IV-T.V- All.5 Tab.1/B
<b>PAHs</b>						
0 benzo[g,h,i]perylene as total and on dry basis at 105°C	<0,032	mg/Kg	02/03/2007 - 02/03/2007	0,032	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 benzo[k]fluoranthene as total and on dry basis at 105°C	<0,038	mg/Kg	02/03/2007 - 02/03/2007	0,038	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 chrysene as total and on dry basis at 105°C	<0,027	mg/Kg	02/03/2007 - 02/03/2007	0,027	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 50
0 dibenzo[a,e]pyrene as total and on dry basis at 105°C	<0,041	mg/Kg	02/03/2007 - 02/03/2007	0,041	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 dibenzo[a,h]anthracene as total and on dry basis at 105°C	<0,038	mg/Kg	02/03/2007 - 02/03/2007	0,038	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 dibenzo[a,h]pyrene as total and on dry basis at 105°C	<0,03	mg/Kg	02/03/2007 - 02/03/2007	0,03	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 dibenzo[a,i]pyrene as total and on dry basis at 105°C	<0,044	mg/Kg	02/03/2007 - 02/03/2007	0,044	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 dibenzo[a,l]pyrene as total and on dry basis at 105°C	<0,025	mg/Kg	02/03/2007 - 02/03/2007	0,025	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 indeno[1,2,3-cd]pyrene as total and on dry basis at 105°C	<0,03	mg/Kg	02/03/2007 - 02/03/2007	0,03	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 5
0 pyrene as total and on dry basis at 105°C	<0,038	mg/Kg	02/03/2007 - 02/03/2007	0,038	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 50

Test Report End

Parameters flagged with # have been carried out using test methods which are not included in the accredited tests list submitted to the Italian Accreditation Body SINAL.

Accredited parameters are flagged with a number designating the category for which they have been accredited for by the Italian Accreditation Body SINAL.

For the accredited test, run in compliance with the modality described in the Accreditation itself, SINAL guarantees:

the competence of the personnel, the availability of suitable instrumentation, and the compliance of the test to the recalled Test Method or Procedure.

"MDL" values indicate, if applicable, the Method Detection Limit (amended by all applicable correction coefficients) for each tested parameter according to the recalled Test Method or Procedure.

The reported Measurement Uncertainty is an Expanded calculated using a coverage factor of 2 with 95% confidence level.

Laboratory Manager





## TEST REPORT n° 162513/07

All results reported in this Test Report are exclusively and specifically referred to the submitted sample. The present Test Report can be reproduced only in its entirety.  
The present Test Report must not be altered in any part or parts or copied for promotional or advertising purposes without the written authorisation of THEOLAB S.r.l.. The present Test Report consists of 3 page(s)

**Customer** ERM ITALIA SpA  
**Address** Via San Gregorio, 38  
 20154 Milano  
**Project/Contract** 0062523  
**Matrix Type** Soil  
**Date received** 01-mar-07  
**Customer Sample ID** MW10/1  
**Laboratory Sample ID** 06 / 25174  
**Test Report date of issue** 05-apr-07  
**Sampling Date** 27-feb-07  
**Sampling Procedure** Sampling activity carried out by the Customer  
**Notes** Type N

Compound Name	Amount and MU	UM	Date Prep Anal	MDL	Test Method Technique Prep Method	D.Lgs.152/06 P.IV-T.V- All.5 Tab.1/B
0 fraction sieved 2 mm dry basis at 105°C	87,1	%	02/03/2007 - 02/03/2007		D.M. 13/09/99 GU n° 248 Metodo II.1 Gravimetry D.M. 13/09/99 GU n° 248 Metodo II.1	
<b>Residues</b>						
0 residue at 105°C as total	81	%	01/03/2007 - 02/03/2007		CNR IRSA 2 Q 64 Vol 2 1984 Gravimetry CNR IRSA 2 Q 64 Vol 2 1984	
<b>Metals</b>						
0 arsenic as total and on dry basis at 105°C	220 ± 55,0	mg/Kg	05/03/2007 - 06/03/2007	0,039	EPA 6020A 1998 ICP-MS EPA 3051A 1998	< 50
0 cadmium as total and on dry basis at 105°C	0,774 ± 0,19	mg/Kg	05/03/2007 - 06/03/2007	0,0041	EPA 6020A 1998 ICP-MS EPA 3051A 1998	< 15
0 chromium as total and on dry basis at 105°C	11,8 ± 2,9	mg/Kg	05/03/2007 - 06/03/2007	0,033	EPA 6020A 1998 ICP-MS EPA 3051A 1998	< 800
0 mercury as total and on dry basis at 105°C	0,363 ± 0,091	mg/Kg	05/03/2007 - 06/03/2007	0,012	EPA 6020A 1998 ICP-MS EPA 3051A 1998	< 5
0 nickel as total and on dry basis at 105°C	19,6 ± 4,9	mg/Kg	05/03/2007 - 06/03/2007	0,044	EPA 6020A 1998 ICP-MS EPA 3051A 1998	< 500
0 lead as total and on dry basis at 105°C	984 ± 250,0	mg/Kg	05/03/2007 - 06/03/2007	0,045	EPA 6020A 1998 ICP-MS EPA 3051A 1998	< 1000
0 copper as total and on dry basis at 105°C	589 ± 150,0	mg/Kg	05/03/2007 - 06/03/2007	0,078	EPA 6020A 1998 ICP-MS EPA 3051A 1998	< 600
0 zinc as total and on dry basis at 105°C	299 ± 75,0	mg/Kg	05/03/2007 - 06/03/2007	0,16	EPA 6020A 1998 ICP-MS EPA 3051A 1998	< 1500
<b>Metals</b>						
0 chromium (VI) as total and on dry basis at 105°C	0,132 ± 0,039	mg/Kg	02/03/2007 - 02/03/2007	0,014	EPA 7199 Rev 0 1996 IC EPA 3060A 1996	< 15

Compound Name	Amount and MU	UM	Date Prep Anal	MDL	Test Method Technique Prep Method	D.Lgs.152/06 P.IV-T.V- All.5 Tab.1/B
# pentaerythrite as total and on dry basis at 105°C	<0,021	mg/Kg	02/03/2007 - 02/03/2007	0,021	SXLC001/05 LC/MS SXLC001/05	
# hexamethylenetetramine as total and on dry basis at 105°C	<0,011	mg/Kg	05/03/2007 - 05/03/2007	0,011	SXLC006/05 LC/MS SXLC006/05	
0 acetaldehyde as total and on dry basis at 105°C	0,0351 ± 0,011	mg/Kg	06/03/2007 - 06/03/2007	0,00032	EPA 8315A 1996 LC/DAD EPA 8315A 1996	
0 formaldehyde as total and on dry basis at 105°C	0,0702 ± 0,021	mg/Kg	06/03/2007 - 06/03/2007	0,00054	EPA 8315A 1996 LC/DAD EPA 8315A 1996	
<b>HC Compounds</b>						
0 HC >C12 <C40 as total and on dry basis at 105°C	12,5 ± 3,8	mg/Kg	02/03/2007 - 02/03/2007	1	EPA 8015D 2003 GC/FID EPA 3550C 2000	< 750
0 TPH < C12 as total and on dry basis at 105°C	<0,23	mg/Kg	02/03/2007 - 03/03/2007	0,23	EPA 8015D 2003 GC/MS EPA 5035A 2002	< 250
<b>Alcohols</b>						
0 methanol as total and on dry basis at 105°C	<0,084	mg/Kg	02/03/2007 - 02/03/2007	0,084	EPA 8015D 2003 GC/FID EPA 5035A 2002	
<b>Semivolatile Aromatic amine</b>						
0 aniline as total and on dry basis at 105°C	<0,045	mg/Kg	02/03/2007 - 02/03/2007	0,045	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 5
<b>Phenolic Compounds</b>						
0 2,4,6-trichlorophenol as total and on dry basis at 105°C	<0,036	mg/Kg	02/03/2007 - 02/03/2007	0,036	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 5
0 2,4-dichlorophenol as total and on dry basis at 105°C	<0,016	mg/Kg	02/03/2007 - 02/03/2007	0,016	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 50
0 2-chlorophenol as total and on dry basis at 105°C	<0,048	mg/Kg	02/03/2007 - 02/03/2007	0,048	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 25
0 2-methylphenol as total and on dry basis at 105°C	<0,045	mg/Kg	02/03/2007 - 02/03/2007	0,045	EPA 8270D 2006 GC/MS EPA 3550C 2000	
0 3-methylphenol as total and on dry basis at 105°C	<0,042	mg/Kg	02/03/2007 - 02/03/2007	0,042	EPA 8270D 2006 GC/MS EPA 3550C 2000	
0 4-methylphenol as total and on dry basis at 105°C	<0,052	mg/Kg	02/03/2007 - 02/03/2007	0,052	EPA 8270D 2006 GC/MS EPA 3550C 2000	
0 phenol as total and on dry basis at 105°C	<0,05	mg/Kg	02/03/2007 - 02/03/2007	0,05	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 60
0 pentachlorophenol as total and on dry basis at 105°C	<0,047	mg/Kg	02/03/2007 - 02/03/2007	0,047	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 5
<b>PAHs</b>						
0 - total PAHs as total and on dry basis at 105°C	0,12 ± 0,036	mg/Kg	----- - 02/03/2007	0,059	EPA 8270D 2006 GC/MS	
0 benzo[a]anthracene as total and on dry basis at 105°C	<0,056	mg/Kg	02/03/2007 - 02/03/2007	0,056	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 benzo[a]pyrene as total and on dry basis at 105°C	<0,038	mg/Kg	02/03/2007 - 02/03/2007	0,038	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 benzo[b]fluoranthene as total and on dry basis at 105°C	<0,036	mg/Kg	02/03/2007 - 02/03/2007	0,036	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10

Compound Name	Amount and MU	UM	Date Prep Anal	MDL	Test Method Technique Prep Method	D.Lgs.152/06 P.IV-T.V- All.5 Tab.1/B
<b>PAHs</b>						
0 benzo[g,h,i]perylene as total and on dry basis at 105°C	<0,042	mg/Kg	02/03/2007 - 02/03/2007	0,042	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 benzo[k]fluoranthene as total and on dry basis at 105°C	<0,051	mg/Kg	02/03/2007 - 02/03/2007	0,051	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 chrysene as total and on dry basis at 105°C	0,12 ± 0,036	mg/Kg	02/03/2007 - 02/03/2007	0,036	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 50
0 dibenzo[a,e]pyrene as total and on dry basis at 105°C	<0,055	mg/Kg	02/03/2007 - 02/03/2007	0,055	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 dibenzo[a,h]anthracene as total and on dry basis at 105°C	<0,051	mg/Kg	02/03/2007 - 02/03/2007	0,051	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 dibenzo[a,h]pyrene as total and on dry basis at 105°C	<0,04	mg/Kg	02/03/2007 - 02/03/2007	0,04	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 dibenzo[a,i]pyrene as total and on dry basis at 105°C	<0,059	mg/Kg	02/03/2007 - 02/03/2007	0,059	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 dibenzo[a,l]pyrene as total and on dry basis at 105°C	<0,034	mg/Kg	02/03/2007 - 02/03/2007	0,034	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 indeno[1,2,3-cd]pyrene as total and on dry basis at 105°C	<0,04	mg/Kg	02/03/2007 - 02/03/2007	0,04	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 5
0 pyrene as total and on dry basis at 105°C	<0,051	mg/Kg	02/03/2007 - 02/03/2007	0,051	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 50

Test Report End

Parameters flagged with # have been carried out using test methods which are not included in the accredited tests list submitted to the Italian Accreditation Body SINAL.

Accredited parameters are flagged with a number designating the category for which they have been accredited for by the Italian Accreditation Body SINAL.

For the accredited test, run in compliance with the modality described in the Accreditation itself, SINAL guarantees:

the competence of the personnel, the availability of suitable instrumentation, and the compliance of the test to the recalled Test Method or Procedure.

"MDL" values indicate, if applicable, the Method Detection Limit (amended by all applicable correction coefficients) for each tested parameter according to the recalled Test Method or Procedure.

The reported Measurement Uncertainty is an Expanded calculated using a coverage factor of 2 with 95% confidence level.

Laboratory Manager



## TEST REPORT n° 162514/07

All results reported in this Test Report are exclusively and specifically referred to the submitted sample. The present Test Report can be reproduced only in its entirety.  
The present Test Report must not be altered in any part or parts or copied for promotional or advertising purposes without the written authorisation of THEOLAB S.r.l.. The present Test Report consists of 3 page(s)

**Customer** ERM ITALIA SpA  
**Address** Via San Gregorio, 38  
 20154 Milano  
**Project/Contract** 0062523  
**Matrix Type** Soil  
**Date received** 01-mar-07  
**Customer Sample ID** MW8/60  
**Laboratory Sample ID** 07 / 25174  
**Test Report date of issue** 05-apr-07  
**Sampling Date** 28-feb-07  
**Sampling Procedure** Sampling activity carried out by the Customer  
**Notes** Type N

Compound Name	Amount and MU	UM	Date Prep Anal	MDL	Test Method Technique Prep Method	D.Lgs.152/06 P.IV-T.V- All.5 Tab.1/B
0 fraction sieved 2 mm dry basis at 105°C	91,1	%	02/03/2007 - 02/03/2007		D.M. 13/09/99 GU n° 248 Metodo II.1 Gravimetry D.M. 13/09/99 GU n° 248 Metodo II.1	
<b>Residues</b>						
0 residue at 105°C as total	91,4	%	01/03/2007 - 02/03/2007		CNR IRSA 2 Q 64 Vol 2 1984 Gravimetry CNR IRSA 2 Q 64 Vol 2 1984	
<b>Metals</b>						
0 arsenic as total and on dry basis at 105°C	5,04 ± 1,3	mg/Kg	05/03/2007 - 06/03/2007	0,039	EPA 6020A 1998 ICP-MS EPA 3051A 1998	< 50
0 cadmium as total and on dry basis at 105°C	0,0702 ± 0,018	mg/Kg	05/03/2007 - 06/03/2007	0,0041	EPA 6020A 1998 ICP-MS EPA 3051A 1998	< 15
0 chromium as total and on dry basis at 105°C	34,2 ± 8,6	mg/Kg	05/03/2007 - 06/03/2007	0,033	EPA 6020A 1998 ICP-MS EPA 3051A 1998	< 800
0 mercury as total and on dry basis at 105°C	0,221 ± 0,055	mg/Kg	05/03/2007 - 06/03/2007	0,012	EPA 6020A 1998 ICP-MS EPA 3051A 1998	< 5
0 nickel as total and on dry basis at 105°C	36,1 ± 9,0	mg/Kg	05/03/2007 - 06/03/2007	0,044	EPA 6020A 1998 ICP-MS EPA 3051A 1998	< 500
0 lead as total and on dry basis at 105°C	2,29 ± 0,57	mg/Kg	05/03/2007 - 06/03/2007	0,045	EPA 6020A 1998 ICP-MS EPA 3051A 1998	< 1000
0 copper as total and on dry basis at 105°C	45,1 ± 11,0	mg/Kg	05/03/2007 - 06/03/2007	0,078	EPA 6020A 1998 ICP-MS EPA 3051A 1998	< 600
0 zinc as total and on dry basis at 105°C	30 ± 7,5	mg/Kg	05/03/2007 - 06/03/2007	0,16	EPA 6020A 1998 ICP-MS EPA 3051A 1998	< 1500
<b>Metals</b>						
0 chromium (VI) as total and on dry basis at 105°C	0,0764 ± 0,023	mg/Kg	02/03/2007 - 02/03/2007	0,015	EPA 7199 Rev 0 1996 IC EPA 3060A 1996	< 15

Compound Name	Amount and MU	UM	Date Prep Anal	MDL	Test Method Technique Prep Method	D.Lgs.152/06 P.IV-T.V- All.5 Tab.1/B
# pentaerythrite as total and on dry basis at 105°C	<0,02	mg/Kg	02/03/2007 - 02/03/2007	0,02	SXLC001/05 LC/MS SXLC001/05	
# hexamethylenetetramine as total and on dry basis at 105°C	<0,01	mg/Kg	05/03/2007 - 05/03/2007	0,01	SXLC006/05 LC/MS SXLC006/05	
0 acetaldehyde as total and on dry basis at 105°C	0,0256 ± 0,0077	mg/Kg	06/03/2007 - 06/03/2007	0,0003	EPA 8315A 1996 LC/DAD EPA 8315A 1996	
0 formaldehyde as total and on dry basis at 105°C	0,0629 ± 0,019	mg/Kg	06/03/2007 - 06/03/2007	0,00051	EPA 8315A 1996 LC/DAD EPA 8315A 1996	
<b>HC Compounds</b>						
0 HC >C12 <C40 as total and on dry basis at 105°C	<1,1	mg/Kg	02/03/2007 - 02/03/2007	1,1	EPA 8015D 2003 GC/FID EPA 3550C 2000	< 750
0 TPH < C12 as total and on dry basis at 105°C	<0,23	mg/Kg	02/03/2007 - 03/03/2007	0,23	EPA 8015D 2003 GC/MS EPA 5035A 2002	< 250
<b>Alcohols</b>						
0 methanol as total and on dry basis at 105°C	<0,08	mg/Kg	02/03/2007 - 02/03/2007	0,08	EPA 8015D 2003 GC/FID EPA 5035A 2002	
<b>Semivolatile Aromatic amine</b>						
0 aniline as total and on dry basis at 105°C	<0,057	mg/Kg	02/03/2007 - 03/03/2007	0,057	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 5
<b>Phenolic Compounds</b>						
0 2,4,6-trichlorophenol as total and on dry basis at 105°C	<0,045	mg/Kg	02/03/2007 - 03/03/2007	0,045	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 5
0 2,4-dichlorophenol as total and on dry basis at 105°C	<0,02	mg/Kg	02/03/2007 - 03/03/2007	0,02	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 50
0 2-chlorophenol as total and on dry basis at 105°C	<0,06	mg/Kg	02/03/2007 - 03/03/2007	0,06	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 25
0 2-methylphenol as total and on dry basis at 105°C	<0,057	mg/Kg	02/03/2007 - 03/03/2007	0,057	EPA 8270D 2006 GC/MS EPA 3550C 2000	
0 3-methylphenol as total and on dry basis at 105°C	<0,053	mg/Kg	02/03/2007 - 03/03/2007	0,053	EPA 8270D 2006 GC/MS EPA 3550C 2000	
0 4-methylphenol as total and on dry basis at 105°C	<0,065	mg/Kg	02/03/2007 - 03/03/2007	0,065	EPA 8270D 2006 GC/MS EPA 3550C 2000	
0 phenol as total and on dry basis at 105°C	<0,063	mg/Kg	02/03/2007 - 03/03/2007	0,063	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 60
0 pentachlorophenol as total and on dry basis at 105°C	<0,059	mg/Kg	02/03/2007 - 03/03/2007	0,059	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 5
<b>PAHs</b>						
0 - total PAHs as total and on dry basis at 105°C	<0,075	mg/Kg	----- - 03/03/2007	0,075	EPA 8270D 2006 GC/MS	
0 benzo[a]anthracene as total and on dry basis at 105°C	<0,07	mg/Kg	02/03/2007 - 03/03/2007	0,07	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 benzo[a]pyrene as total and on dry basis at 105°C	<0,048	mg/Kg	02/03/2007 - 03/03/2007	0,048	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 benzo[b]fluoranthene as total and on dry basis at 105°C	<0,046	mg/Kg	02/03/2007 - 03/03/2007	0,046	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10

Compound Name	Amount and MU	UM	Date Prep Anal	MDL	Test Method Technique Prep Method	D.Lgs.152/06 P.IV-T.V- All.5 Tab.1/B
<b>PAHs</b>						
0 benzo[g,h,i]perylene as total and on dry basis at 105°C	<0,053	mg/Kg	02/03/2007 - 03/03/2007	0,053	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 benzo[k]fluoranthene as total and on dry basis at 105°C	<0,064	mg/Kg	02/03/2007 - 03/03/2007	0,064	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 chrysene as total and on dry basis at 105°C	<0,046	mg/Kg	02/03/2007 - 03/03/2007	0,046	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 50
0 dibenzo[a,e]pyrene as total and on dry basis at 105°C	<0,069	mg/Kg	02/03/2007 - 03/03/2007	0,069	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 dibenzo[a,h]anthracene as total and on dry basis at 105°C	<0,064	mg/Kg	02/03/2007 - 03/03/2007	0,064	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 dibenzo[a,h]pyrene as total and on dry basis at 105°C	<0,051	mg/Kg	02/03/2007 - 03/03/2007	0,051	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 dibenzo[a,i]pyrene as total and on dry basis at 105°C	<0,075	mg/Kg	02/03/2007 - 03/03/2007	0,075	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 dibenzo[a,l]pyrene as total and on dry basis at 105°C	<0,042	mg/Kg	02/03/2007 - 03/03/2007	0,042	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 indeno[1,2,3-cd]pyrene as total and on dry basis at 105°C	<0,05	mg/Kg	02/03/2007 - 03/03/2007	0,05	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 5
0 pyrene as total and on dry basis at 105°C	<0,065	mg/Kg	02/03/2007 - 03/03/2007	0,065	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 50

---

**Test Report End**


---

Parameters flagged with # have been carried out using test methods which are not included in the accredited tests list submitted to the Italian Accreditation Body SINAL.

Accredited parameters are flagged with a number designating the category for which they have been accredited for by the Italian Accreditation Body SINAL.

For the accredited test, run in compliance with the modality described in the Accreditation itself, SINAL guarantees:

the competence of the personnel, the availability of suitable instrumentation, and the compliance of the test to the recalled Test Method or Procedure.

"MDL" values indicate, if applicable, the Method Detection Limit (amended by all applicable correction coefficients) for each tested parameter according to the recalled Test Method or Procedure.

The reported Measurement Uncertainty is an Expanded calculated using a coverage factor of 2 with 95% confidence level.

Laboratory Manager



## TEST REPORT n° 162515/07

All results reported in this Test Report are exclusively and specifically referred to the submitted sample. The present Test Report can be reproduced only in its entirety.  
The present Test Report must not be altered in any part or parts or copied for promotional or advertising purposes without the written authorisation of THEOLAB S.r.l.. The present Test Report consists of 3 page(s)

**Customer** ERM ITALIA SpA  
**Address** Via San Gregorio, 38  
 20154 Milano  
**Project/Contract** 0062523  
**Matrix Type** Soil  
**Date received** 01-mar-07  
**Customer Sample ID** MW8/35  
**Laboratory Sample ID** 08 / 25174  
**Test Report date of issue** 05-apr-07  
**Sampling Date** 27-feb-07  
**Sampling Procedure** Sampling activity carried out by the Customer  
**Notes** Type N

Compound Name	Amount and MU	UM	Date Prep Anal	MDL	Test Method Technique Prep Method	D.Lgs.152/06 P.IV-T.V- All.5 Tab.1/B
0 fraction sieved 2 mm dry basis at 105°C	96,9	%	02/03/2007 - 02/03/2007		D.M. 13/09/99 GU n° 248 Metodo II.1 Gravimetry D.M. 13/09/99 GU n° 248 Metodo II.1	
<b>Residues</b>						
0 residue at 105°C as total	99,6	%	01/03/2007 - 02/03/2007		CNR IRSA 2 Q 64 Vol 2 1984 Gravimetry CNR IRSA 2 Q 64 Vol 2 1984	
<b>Metals</b>						
0 arsenic as total and on dry basis at 105°C	3,55 ± 0,89	mg/Kg	05/03/2007 - 06/03/2007	0,044	EPA 6020A 1998 ICP-MS EPA 3051A 1998	< 50
0 cadmium as total and on dry basis at 105°C	0,0346 ± 0,0086	mg/Kg	05/03/2007 - 06/03/2007	0,0046	EPA 6020A 1998 ICP-MS EPA 3051A 1998	< 15
0 chromium as total and on dry basis at 105°C	20,5 ± 5,1	mg/Kg	05/03/2007 - 06/03/2007	0,037	EPA 6020A 1998 ICP-MS EPA 3051A 1998	< 800
0 mercury as total and on dry basis at 105°C	<0,013	mg/Kg	05/03/2007 - 06/03/2007	0,013	EPA 6020A 1998 ICP-MS EPA 3051A 1998	< 5
0 nickel as total and on dry basis at 105°C	20,3 ± 5,1	mg/Kg	05/03/2007 - 06/03/2007	0,05	EPA 6020A 1998 ICP-MS EPA 3051A 1998	< 500
0 lead as total and on dry basis at 105°C	2,05 ± 0,51	mg/Kg	05/03/2007 - 06/03/2007	0,051	EPA 6020A 1998 ICP-MS EPA 3051A 1998	< 1000
0 copper as total and on dry basis at 105°C	11,1 ± 2,8	mg/Kg	05/03/2007 - 06/03/2007	0,088	EPA 6020A 1998 ICP-MS EPA 3051A 1998	< 600
0 zinc as total and on dry basis at 105°C	22,8 ± 5,7	mg/Kg	05/03/2007 - 06/03/2007	0,18	EPA 6020A 1998 ICP-MS EPA 3051A 1998	< 1500
<b>Metals</b>						
0 chromium (VI) as total and on dry basis at 105°C	0,0618 ± 0,019	mg/Kg	02/03/2007 - 02/03/2007	0,016	EPA 7199 Rev 0 1996 IC EPA 3060A 1996	< 15



Compound Name	Amount and MU	UM	Date Prep Anal	MDL	Test Method Technique Prep Method	D.Lgs.152/06 P.IV-T.V- All.5 Tab.1/B
# pentaerythrite as total and on dry basis at 105°C	<0,019	mg/Kg	02/03/2007 - 02/03/2007	0,019	SXLC001/05 LC/MS SXLC001/05	
# hexamethylenetetramine as total and on dry basis at 105°C	<0,0097	mg/Kg	05/03/2007 - 05/03/2007	0,0097	SXLC006/05 LC/MS SXLC006/05	
0 acetaldehyde as total and on dry basis at 105°C	0,0235 ± 0,007	mg/Kg	06/03/2007 - 06/03/2007	0,0003	EPA 8315A 1996 LC/DAD EPA 8315A 1996	
0 formaldehyde as total and on dry basis at 105°C	0,0494 ± 0,015	mg/Kg	06/03/2007 - 06/03/2007	0,00051	EPA 8315A 1996 LC/DAD EPA 8315A 1996	
<b>HC Compounds</b>						
0 HC >C12 <C40 as total and on dry basis at 105°C	2,28 ± 0,68	mg/Kg	02/03/2007 - 02/03/2007	1,1	EPA 8015D 2003 GC/FID EPA 3550C 2000	< 750
0 TPH < C12 as total and on dry basis at 105°C	<0,18	mg/Kg	02/03/2007 - 03/03/2007	0,18	EPA 8015D 2003 GC/MS EPA 5035A 2002	< 250
<b>Alcohols</b>						
0 methanol as total and on dry basis at 105°C	<0,083	mg/Kg	02/03/2007 - 02/03/2007	0,083	EPA 8015D 2003 GC/FID EPA 5035A 2002	
<b>Semivolatile Aromatic amine</b>						
0 aniline as total and on dry basis at 105°C	<0,051	mg/Kg	02/03/2007 - 03/03/2007	0,051	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 5
<b>Phenolic Compounds</b>						
0 2,4,6-trichlorophenol as total and on dry basis at 105°C	<0,04	mg/Kg	02/03/2007 - 03/03/2007	0,04	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 5
0 2,4-dichlorophenol as total and on dry basis at 105°C	<0,018	mg/Kg	02/03/2007 - 03/03/2007	0,018	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 50
0 2-chlorophenol as total and on dry basis at 105°C	<0,054	mg/Kg	02/03/2007 - 03/03/2007	0,054	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 25
0 2-methylphenol as total and on dry basis at 105°C	<0,051	mg/Kg	02/03/2007 - 03/03/2007	0,051	EPA 8270D 2006 GC/MS EPA 3550C 2000	
0 3-methylphenol as total and on dry basis at 105°C	<0,047	mg/Kg	02/03/2007 - 03/03/2007	0,047	EPA 8270D 2006 GC/MS EPA 3550C 2000	
0 4-methylphenol as total and on dry basis at 105°C	<0,058	mg/Kg	02/03/2007 - 03/03/2007	0,058	EPA 8270D 2006 GC/MS EPA 3550C 2000	
0 phenol as total and on dry basis at 105°C	<0,056	mg/Kg	02/03/2007 - 03/03/2007	0,056	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 60
0 pentachlorophenol as total and on dry basis at 105°C	<0,052	mg/Kg	02/03/2007 - 03/03/2007	0,052	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 5
<b>PAHs</b>						
0 - total PAHs as total and on dry basis at 105°C	<0,067	mg/Kg	----- - 03/03/2007	0,067	EPA 8270D 2006 GC/MS	
0 benzo[a]anthracene as total and on dry basis at 105°C	<0,063	mg/Kg	02/03/2007 - 03/03/2007	0,063	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 benzo[a]pyrene as total and on dry basis at 105°C	<0,043	mg/Kg	02/03/2007 - 03/03/2007	0,043	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 benzo[b]fluoranthene as total and on dry basis at 105°C	<0,041	mg/Kg	02/03/2007 - 03/03/2007	0,041	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10

Compound Name	Amount and MU	UM	Date Prep Anal	MDL	Test Method Technique Prep Method	D.Lgs.152/06 P.IV-T.V- All.5 Tab.1/B
<b>PAHs</b>						
0 benzo[g,h,i]perylene as total and on dry basis at 105°C	<0,047	mg/Kg	02/03/2007 - 03/03/2007	0,047	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 benzo[k]fluoranthene as total and on dry basis at 105°C	<0,057	mg/Kg	02/03/2007 - 03/03/2007	0,057	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 chrysene as total and on dry basis at 105°C	<0,041	mg/Kg	02/03/2007 - 03/03/2007	0,041	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 50
0 dibenzo[a,e]pyrene as total and on dry basis at 105°C	<0,062	mg/Kg	02/03/2007 - 03/03/2007	0,062	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 dibenzo[a,h]anthracene as total and on dry basis at 105°C	<0,057	mg/Kg	02/03/2007 - 03/03/2007	0,057	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 dibenzo[a,h]pyrene as total and on dry basis at 105°C	<0,045	mg/Kg	02/03/2007 - 03/03/2007	0,045	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 dibenzo[a,i]pyrene as total and on dry basis at 105°C	<0,067	mg/Kg	02/03/2007 - 03/03/2007	0,067	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 dibenzo[a,l]pyrene as total and on dry basis at 105°C	<0,038	mg/Kg	02/03/2007 - 03/03/2007	0,038	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 10
0 indeno[1,2,3-cd]pyrene as total and on dry basis at 105°C	<0,045	mg/Kg	02/03/2007 - 03/03/2007	0,045	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 5
0 pyrene as total and on dry basis at 105°C	<0,058	mg/Kg	02/03/2007 - 03/03/2007	0,058	EPA 8270D 2006 GC/MS EPA 3550C 2000	< 50

Test Report End

Parameters flagged with # have been carried out using test methods which are not included in the accredited tests list submitted to the Italian Accreditation Body SINAL.

Accredited parameters are flagged with a number designating the category for which they have been accredited for by the Italian Accreditation Body SINAL.

For the accredited test, run in compliance with the modality described in the Accreditation itself, SINAL guarantees:

the competence of the personnel, the availability of suitable instrumentation, and the compliance of the test to the recalled Test Method or Procedure.

"MDL" values indicate, if applicable, the Method Detection Limit (amended by all applicable correction coefficients) for each tested parameter according to the recalled Test Method or Procedure.

The reported Measurement Uncertainty is an Expanded calculated using a coverage factor of 2 with 95% confidence level.

Laboratory Manager

